WHAT IS CLAIMED IS:

1. A method for transmitting comprising:

providing an encoding alphabet comprising a plurality of information characters;

producing at least a first waveform associated with a first information character;

producing at least a second waveform associated with said first information character;

producing a third waveform by combining said first and second waveforms, thereby defining a symbol; and

transmitting said third waveform.

2. The method according to claim 1 wherein said third waveform comprises one cycle of said first waveform and one cycle of said second waveform.

3. The method according to claim 1 further including producing a fourth waveform representing a second information character.

4. The method according to claim 3 wherein said third waveform and said fourth waveform have the same period.

5. The method according to claim 3 wherein said third and fourth waveforms have the same period.

6. The method according to claim 1 wherein said first waveform and said second waveform each represents said first character information.

7. The method according to claim 6 wherein said first waveform and said second waveform are identical waveforms.

8. The method according to claim 6 wherein said first waveform and said second waveform have different periods.

9. The method according to claim 1 wherein said first waveform and said second waveform together represent said first character information.

10. The method according to claim 1 further including producing at least a fourth waveform, wherein said producing a third waveform includes combining said fourth waveform with said first and second waveforms.

11. The method according to claim 10 wherein said first waveform, said second waveform, and said fourth waveform are different waveforms, which together represent said first information character.

12. A method for communication between a transmitter and a receiver comprising:

generating an analog waveform including generating at least a first waveform corresponding to an information character of an encoding alphabet, said first waveform defining a symbol, said first waveform having a first period; and

transmitting, from said transmitter to said receiver, a source signal characterized by said analog waveform,

said generating at least a first waveform including:

generating a second waveform having a period less than said first period;

generating a third waveform having a period less than said first period, said second and third waveforms representing said information character; and

combining said second and third waveforms to produce said first waveform.

13. The method according to claim 12 wherein said first waveform comprises one cycle of said second waveform and one cycle of said third waveform.

14. The method according to claim 12, wherein said generating an analog waveform further includes generating a fourth waveform corresponding to another information character of said encoding alphabet, wherein a period of said fourth waveform is equal to said first period.

15. The method according to claim 12, wherein said second and third waveforms, each is selected from the group consisting of sinusoidal, ramp, asymmetric, sawtooth, square, and channel-optimized waveforms.

16. The method according to claim 12, wherein said second and third waveforms are identical, so that said information character is redundant in said first waveform to increase robustness of said source signal.

17. The method according to claim 12 wherein said second and third waveform together represent said information character.

18. The method according to claim 12 wherein said second waveform represents said information character and said third waveform represents said information character, so that said information character occurs more than once in said first waveform to increase robustness of said source signal.

19. The method according to claim 18 wherein said second waveform and said third waveform are different waveforms.

20. The method according to claim 12 wherein said second waveform and said third waveform have different periods, the sum of which is equal to said first period.

21. The method according to claim 12 wherein said periods of second waveform and said third waveform each is one-half of said first period.